

Application No. 09/594,816

Attorney Docket No. 040071-079

LISTING OF CLAIMS

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1. **(Currently Amended)** An electroacoustic transducer, comprising:
a driver; and
an acoustic horn having an acoustical impedance matched with impedances of an ear and the driver, wherein the acoustic horn has a cross-sectional area that generally increases from a small end proximate the driver to a large end.
 2. **(Currently Amended)** The electroacoustic transducer as set forth in claim 1, further comprising a plate disposed proximate a the large end of the horn, the plate having one or more holes therein, and wherein the horn's cross-sectional area at the small end is less than the horn's cross-sectional area at the large end.
 3. **(Original)** The electroacoustic transducer as set forth in claim 1, wherein the driver includes a driving membrane.
 4. **(Original)** The electroacoustic transducer as set forth in claim 3, wherein the driving membrane has a diameter less than 1 mm in diameter.
 5. **(Currently Amended)** An acoustic horn having an acoustic impedance matched with impedances of an ear and a driver, wherein the acoustic horn has a cross-sectional area that generally increases from a small end to a large end.
 6. **(Currently Amended)** The acoustic horn as set forth in claim 5, further comprising a plate disposed proximate a the large end of the horn, the plate having one or more holes therein, and wherein the horn's cross-sectional area at the small end is less than the horn's cross-sectional area at the large end.
 7. **(Currently Amended)** A portable device, comprising:
a body;
a driver mounted inside the body; and
an acoustic horn having an acoustical impedance matched with impedances of an ear and the driver, a large end of the horn extending to a position proximate an

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exterior surface of the body, and a small end of the horn being disposed proximate the driver, wherein the horn has a cross-sectional area that generally increases from the small end to the large end.

8. **(Currently Amended)** The portable device as set forth in claim 7, further comprising a plate disposed proximate a the large end of the horn, the plate having one or more holes therein, and wherein the horn's cross-sectional area at the small end is less than the horn's cross-sectional area at the large end..

9. **(Original)** The portable device as set forth in claim 8, wherein the plate is part of the body.

10. **(Original)** The portable device as set forth in claim 7, wherein the horn is integrally formed with the body.

11. **(Original)** The portable device as set forth in claim 7, wherein the driver includes a driving membrane.

12. **(Original)** The portable device as set forth in claim 11, wherein the driving membrane has a diameter less than 1 mm in diameter.

13. **(Original)** The portable device as set forth in claim 7, wherein the body forms at least part of a telephone device.

14. **(Original)** The portable device as set forth in claim 13, wherein the telephone device further includes a microphone arrangement.

15. **(Original)** The portable device as set forth in claim 7, wherein the body has an elongated shape.

16. **(Original)** The portable device as set forth in claim 15, wherein the body forms at least part of a writing instrument.

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17. (Original) The portable device as set forth in claim 7, wherein the body forms at least part of a personal computer.

18. (Original) The portable device as set forth in claim 7, wherein the body forms at least part of a pager.

19. (Original) The portable device as set forth in claim 7, wherein the body forms at least part of a personal digital assistant.